

(No Model.)

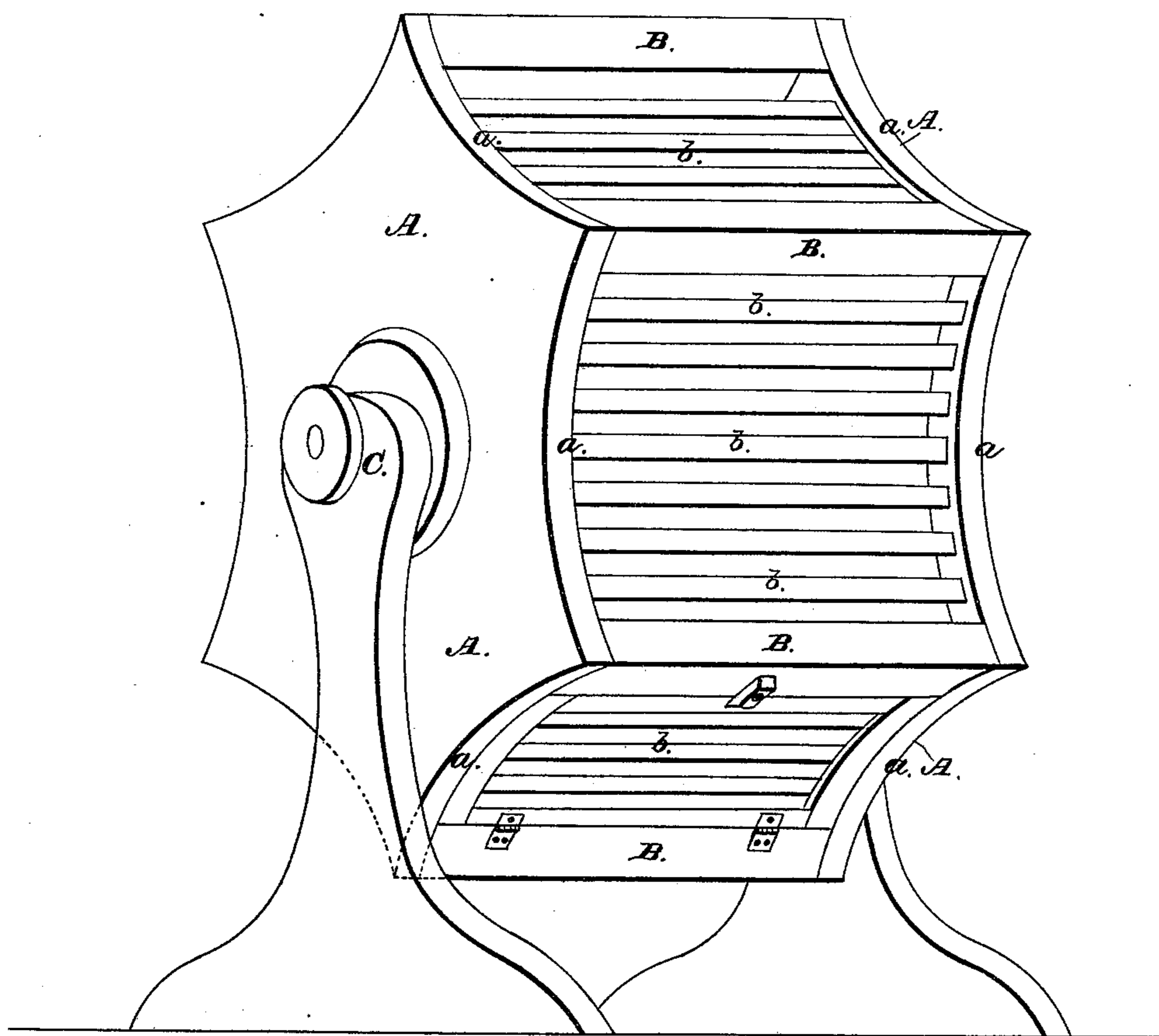
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T. FERRY.
Carpet Cleaner.

No. 231,550.

Patented Aug. 24, 1880.

Fig. 1.



WITNESSES

Geo. E. Hutchinson.
Henry G. Hazard.

INVENTOR.

Thos. Ferry, by
Geo. S. Prindle, his Atty

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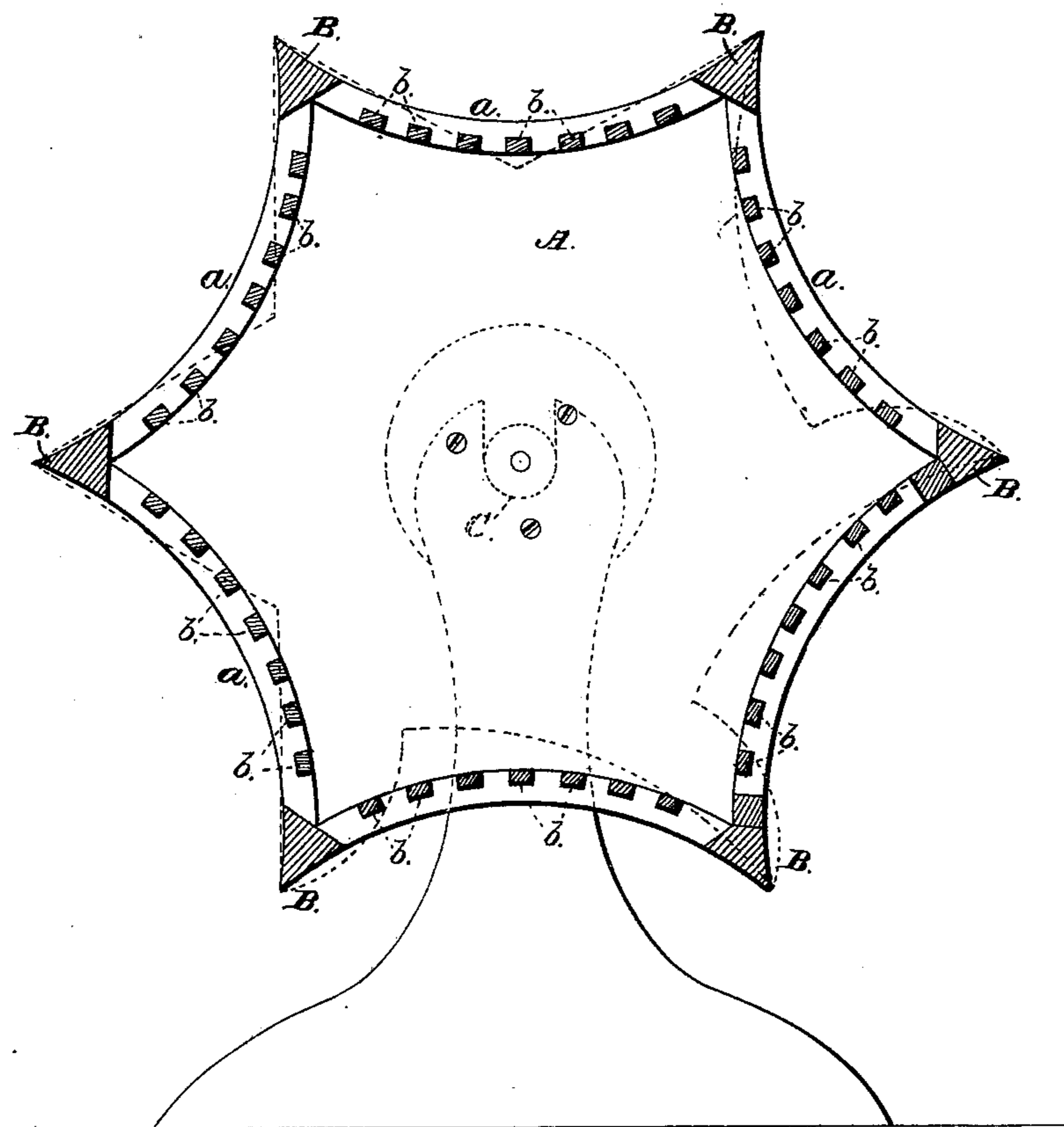
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Fig. 2.



WITNESSES-

Geo. E. Hutchinson.
Henry L. Hazard.

INVENTOR-

Thos. Ferry, by
Geo. S. Prindle, his Atty

UNITED STATES PATENT OFFICE.

THOMAS FERRY, OF WILMINGTON, DELAWARE.

CARPET-CLEANER.

SPECIFICATION forming part of Letters Patent No. 231,550, dated August 24, 1880.

Application filed June 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, THOMAS FERRY, of Wilmington, in the county of New Castle, and in the State of Delaware, have invented certain new and useful Improvements in Carpet-Cleaners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improved machine, and Fig. 2 is a vertical cross-section of the same.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to enable carpets to be cleansed from dust and loose dirt without injury from wear; and to this end it consists in a cage or drum provided with axial bearings, upon which it may be rotated, and having an open periphery formed by a series of inwardly-extending panels, substantially as and for the purpose hereinafter specified.

In the annexed drawings, A and A represent the ends of my cage, which ends have their peripheries formed of a number of faces, *a*, which are curved or extended inward, as shown, the number of such faces being preferably six. At the points of intersection of the faces *a* of the ends A said parts are connected together by means of bars B, and between such bars slats *b* are secured at equidistant points, the whole forming a cage which has a periphery composed of a number of open or slatted panels that curve inwardly. One of said peripheral panels is formed separately and hinged so as to be capable of being opened for the purpose of admitting a carpet into the interior of said cage.

The cage described is journaled within suitable supports by means of axial bearings C, attached to its ends, and means being provided whereby it may be rotated, its operation is as follows, viz: A carpet is placed within the interior of the cage, and after the hinged panel is closed and secured said cage is caused to revolve. The carpet is successively carried upward by each panel to a point considerably above the axial center of said cage, when it falls downward upon and en-

gages with the next lower panel, such operation being repeated while the revolutions of the said cage are continued.

At each fall of the carpet the concussion causes a portion of the dust contained therein to be loosened and driven outward, while the rolling movement given to said carpet causes a different portion to be exposed at each fall, the result being the speedy and thorough removal of all dust and dirt through the open periphery of the cage.

While the inwardly-curving form of the peripheral panels is preferred, it will be seen that they may have the form of obtuse angles, or the form of saw-teeth, as shown by dotted lines of Fig. 2, without departure from the spirit of my invention, the object sought by the inward extension of said panels being to form ledges with which the carpet will engage and by which said carpet will be raised while the cage is in motion.

The inwardly-extending panels engage with the carpet and operate as perfectly to raise the latter as could straight panels with other means, while in falling said carpet meets with no obstruction until it strikes squarely upon the lower panel and has a portion of its dust driven out. When other means have been employed for raising the carpet it has been found that they checked or retarded the fall of the same and prevented it from impinging upon the bottom of the drum with as much force as results from the construction shown.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

A carpet-cleaner consisting of a cage or drum provided with axial bearings upon which it may be rotated and having an open periphery formed by a series of inwardly-extending panels, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of May, 1880.

THOMAS FERRY.

Witnesses:

JOHN W. PILLING,

JAS. E. HUTCHINSON.